

**PLEASE AMEND THIS APPLICATION AS FOLLOWS:**

**In The Claims:**

Amend claims 48, 77, 80, 100 and 102 as follows:

48. (Twice Amended) A composition of matter comprising:

a transparent non-porous or translucent non-porous system containing a fluid or solution, which system comprises:

- (i) a solid support; and
- (ii) a double-stranded oligonucleotide or polynucleotide which is directly or indirectly fixed or immobilized to said solid support wherein one of the strands produces a quantifiable soluble signal generated or generatable from a chemical label or labels which comprise a signalling moiety or moieties.

77. (Twice Amended) A composition of matter comprising:

a transparent non-porous or translucent non-porous system containing a fluid or solution, which system comprises:

- a double-stranded oligonucleotide or polynucleotide which is directly or indirectly fixed or immobilized to said system wherein one of the strands produces a quantifiable soluble signal generated or generatable from a chemical label or labels which comprise a signalling moiety or moieties.

100. (Twice Amended) An apparatus comprising:

- 1) one or more solution containing means, each comprising a transparent non-porous or translucent non-porous device;
- 2) means for forming a fixed or immobilized double-stranded oligonucleotide or polynucleotide hybrid to a solid support in said device, said hybrid comprising a chemical label or labels attached to one strand of said hybrid, said label or labels comprising a signalling moiety or moieties which are capable of generating a quantifiable soluble signal; and
- 3) means for producing a quantifiable soluble signal generatable or generated from said chemical label or labels which comprise said signalling moiety or moieties.

102. (Twice Amended) A transparent non-porous or translucent non-porous system containing a fluid or solution, which system comprises:

(ii) an oligonucleotide or polynucleotide hybridized or hybridizable to an oligo- polynucleotide sequence, said oligonucleotide or polynucleotide in double-stranded form producing a quantifiable or detectable soluble signal generated or generatable from a chemical label or labels which comprise a signalling moiety or moieties; and

(ii) a solid support having directly or indirectly fixed or immobilized thereto said oligo- or polynucleotide sequence or said oligonucleotide or polynucleotide (i).

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